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Title: JP11214021A2: SOLID ELECTROLYTE TYPE FUEL CELL POWER GENERATING APPARATUS

=Country: JP_Japan

Kind: A

Inventor(s): **HAMADA YUKITAKA
ONDA KAZUO**

Applicant/Assignee

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Issued/Filed Dates: Aug. 6, 1999 / Jan. 27, 1998

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Problem to be solved: To generate electric power while keeping a fuel cell in a suitable temperature by using pure hydrogen and pure oxygen as a fuel and an oxidizer, keeping their utilization factors high and without generating contaminants.

Solution: This power generating apparatus is provided with solid electrolyte type fuel cell 20 having an anode and an cathode, an anode gas line 22 that supplies an anode gas containing hydrogen and oxygen to the fuel cell 20, an anode recycle line 24 that cools the anode gas which passed through the fuel cell 20 and removes moisture to the anode gas line 22, a cathode gas line 26 that supplies a cathode gas containing oxygen to the fuel cell 20, and an cathode recycling 28 that cools the cathode gas which passed through the fuel cell 20 and removes moisture to the cathode gas line 26. The temperature of the fuel cell 20 is controlled by cooling the gas in the recycle lines 26, 28.

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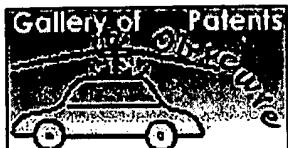
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Other Abstract Info: **CHEMABS 131(11)146936E CHEMABS 131(11)
146936E DEPARS C1000 E11061 DEPARS**

1409302 U.S. PATENT AND TRADEMARK OFFICE
C1999-511061

Foreign References:

No patents reference this one



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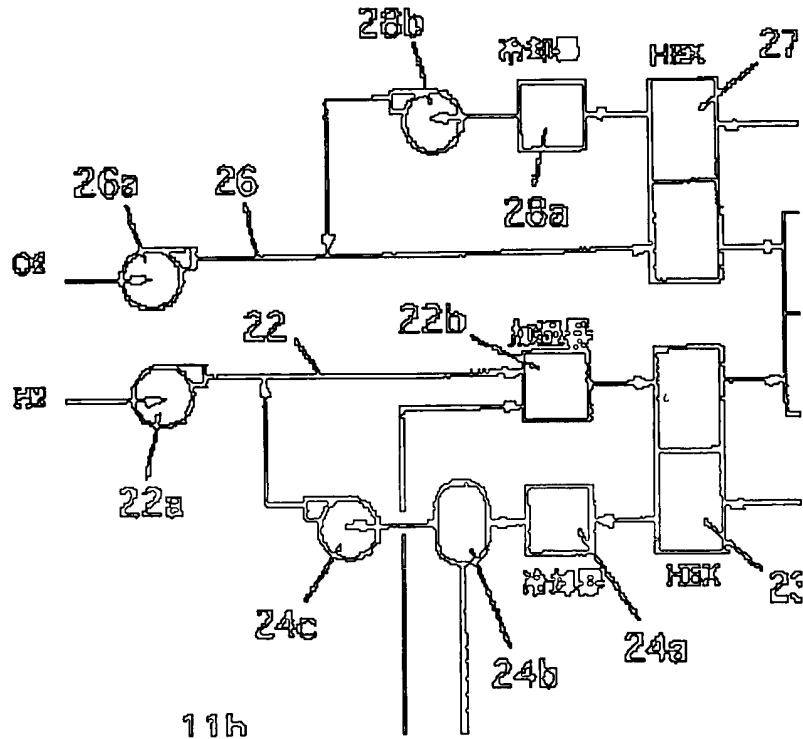
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(54) SOLID ELECTROLYTE
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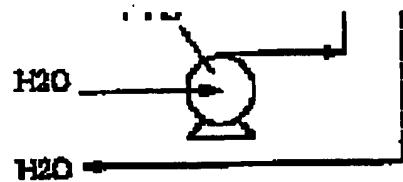
(57) Abstract:

PROBLEM TO BE SOLVED: To generate electric power while keeping a fuel cell in a suitable temperature by using pure hydrogen and pure oxygen as a fuel and an oxidizer, keeping their utilization factors high and without generating contaminants.

SOLUTION: This power generating apparatus is provided with solid electrolyte type fuel cell 20 having an anode and an cathode, an anode gas line 22 that supplies an anode gas containing hydrogen and oxygen to the fuel cell 20, an anode recycle line 24 that cools the anode gas which passed through the fuel cell 20 and removes moisture to the anode gas line 22, a cathode gas line 26 that supplies a cathode gas containing oxygen to the fuel cell 20, and an



cathode recycling 28 that cools the cathode gas which passed through the fuel cell 20 and removes moisture to the cathode gas line 26. The temperature of the fuel cell 20 is controlled by cooling the gas in the recycle lines 26, 28.



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